

Rebuild and Adjustment Manual for Models 2010, 2300, 4010, 4011, 4150, 4160, 4165, 4175, and 4500

WARNING! These instructions must be read and fully understood before beginning installation. Failure to follow these instructions may result in poor performance, vehicle damage, personal injury, or death. If these instructions are not fully understood, installation should not be attempted.

TABLE OF CONTENTS:

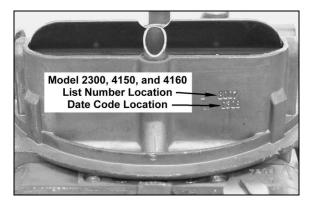
Read This First	2
Locating the List Number	2
Disassembly	3
Cleaning and Care	
Reassembly	
Special Instructions for all Carburetors	
Special Instructions for Models 2300, 4150, 4160, 4165, and 4175	4
Special Instructions for Models 2010, 4010, and 4011	4
Special Instructions for Models 4165 and 4175	5
Special Instructions for Model 4500	5
Carburetor Adjustments	6

READ THIS FIRST:

This is a typical view type instruction sheet for different carburetor models, which will show more parts than are required for any one specific model. This kit may also contain universal part assortments, resulting in throw away or an excess in the number of parts that are actually required for servicing any one carburetor. In the case of duplicate gaskets or parts, compare with old pieces. When reassembling the carburetor, use the adjustment specification list to make the necessary adjustments for the list number of your carburetor.

Throughout this instruction sheet, there will be **WARNINGS** and **NOTES**. Please read these, as they contain valuable information that can save you time and money. It is our intent to provide the best possible products for our customers: products that perform properly and satisfy your expectations. Should you need information of parts assistance, please contact our technical service department at 1-270-781-9741, Monday through Friday, 7 a.m. to 5 p.m. Central time. Please have the part number of the product you purchased when you call.

LOCATING THE LIST NUMBER:



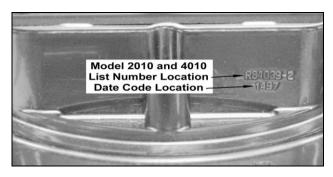


Figure 1

Figure 2

The List number for a Model 2010, 2300, 4010, 4011, 4150, 4160, 4165, or 4175 carburetor can be found on the **right side of choke air horn**. The List number for the 4500 can be found on the top of the main body casting. Below the list number is a date code that will contain no more than four (4) digits. See Figures below.

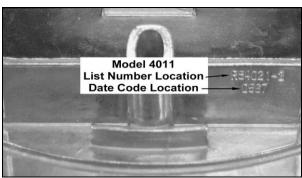


Figure 3



Figure 4

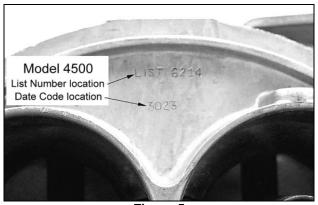


Figure 5

DISASSEMBLY:

Rest the carburetor on a repair stand to avoid damage to the throttle plates during renewal procedures. Use the exploded view, for the model of carburetor you have, as a guide and follow the numerical sequence in general to disassemble unit far enough to permit cleaning and inspection. DO NOT remove throttle plates or shaft. Idle limiter: turn the idle limiter cap to its leanest (clockwise) position and remove cap. Observe and Record the initial position of the needle slot. Turn the idle needles clockwise, until lightly seated, recording the number of turns required to seat the needles. This procedure is necessary to reinstall the idle needles after renewing the carburetor.

WARNING! Use care not to damage the idle adjusting needles when removing idle limiter caps.

CLEANING AND CARE:

Cleaning must be done with carburetor disassembled. Soak parts long enough to soften and remove all foreign material. Use a carburetor solvent, lacquer thinner or denatured alcohol. Make certain the throttle body is free of all hard carbon deposits. Wash off in suitable solvent. Blow all passages in castings with compress air and check carefully to insure thorough cleaning of obscure areas.

WARNING! DO NOT soak parts containing rubber or plastic material. Serious damage could result.

<u>WARNING!</u> Fuel bowls, should only be exposed to carburetor cleaner long enough to permit removal of gum and varnish deposits with a brush. Some fuel bowls have internal "O" Ring seals, which are not removable, but can be damaged by prolonged

exposure to some carburetor cleaning solvents.

REASSEMBLY:

Reassemble in reverse order of disassembly. Note the special instructions and follow the calibration numbers in the **SPECIFICATIONS** manual in making final adjustments.

Manually operate the throttle lever and choke mechanism, checking for binding or malfunction. Any binding or interference could cause throttle to stick during operation and result in loss of carburetor throttle control (or uncontrolled engine speed).

<u>WARNING!</u> Check carburetor to be sure there are no leaks or flooding, which might cause a fire.

SPECIAL INSTRUCTIONS FOR ALL CARBURETORS:

IDLE ADJUSTING NEEDLES - Tapered portion of needle must be straight and smooth. If grooved or ridged, a new needle would be install.

PUMP INLET CHECK VALVE - Lubricate tip of new valve and insert in center hole in pump cavity. Pull through from fuel bowl side, until seated.

CHOKE PLATE SCREW - Choke plate screws are staked to prevent loosening. To avoid breaking or stripping the threads in the choke shaft, lightly file off the staking. Choke plate screws should be restaked after tightening to prevent loosening.

THROTTLE BODY - **DO NOT** remove throttle shafts or plates. If throttle plates are nicked or damaged, it will be necessary to replace the throttle body.

CHECK BALL - Your kit may contain more than one check ball. The check ball removed from your carburetor should be compared to the new check ball for correct sizing before installation.

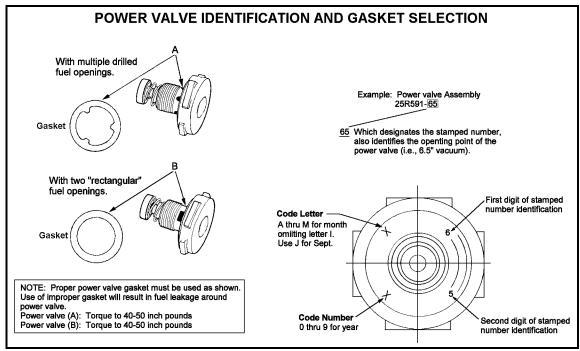


Figure 6

SPECIAL INSTRUCTIONS FOR MODELS 2300, 4150, 4160, 4165, and 4175:

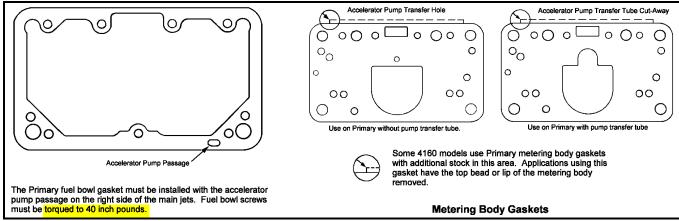


Figure 7

SPECIAL INSTRUCTIONS FOR MODELS 2010, 4010, AND 4011:

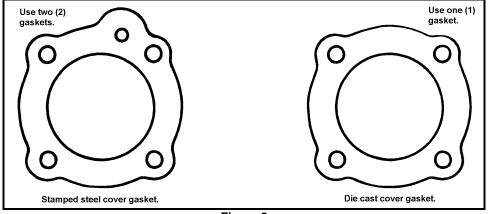
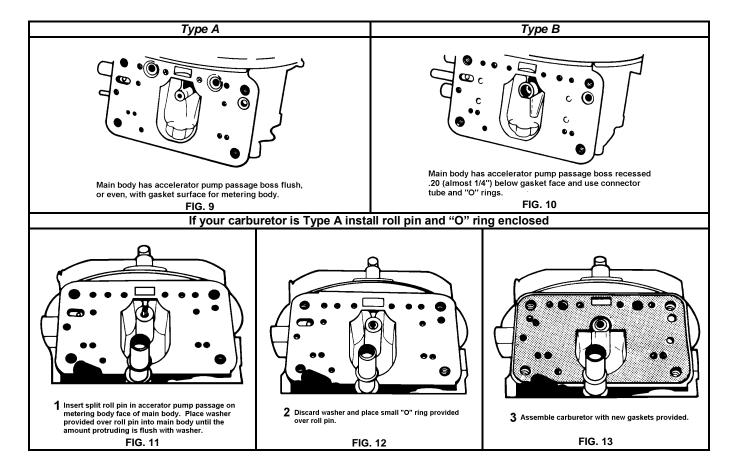


Figure 8

SPECIAL INSTRUCTIONS FOR MODELS 4165/4175

NOTE: Spread bore carburetors have been built with two types of main metering bodies and main body castings.

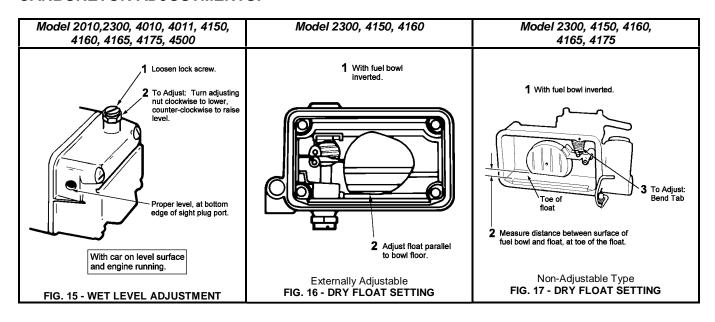


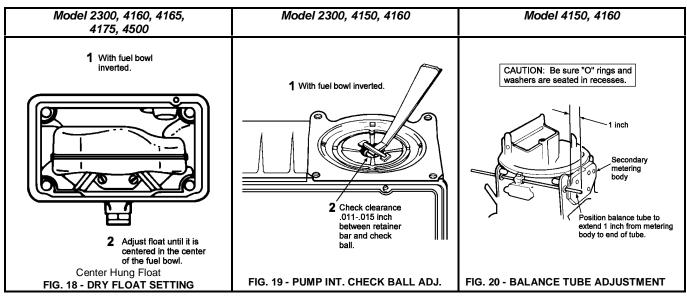
SPECIAL INSTRUCTIONS FOR MODEL 4500:

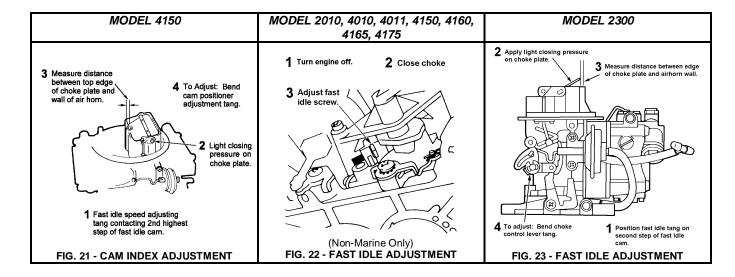
It is absolutely imperative that the throttles are timed to open exactly together. If due to wear of severe use the throttles are not synchronized a minor adjustment to the operating link will remedy the problem. With the throttle lever held against the wide open throttle stop, bending adjustments can be made to lengthen or shorten the connecting link; to remove idle slack between the throttle shafts, the link shold be shortened; to prevent over travel at wide open throttle, the link must be made longer. To adjust the linkage for wide open throttle of all four bores, the intermediate connecting link can be made shorter or longer as the carburetor requires.

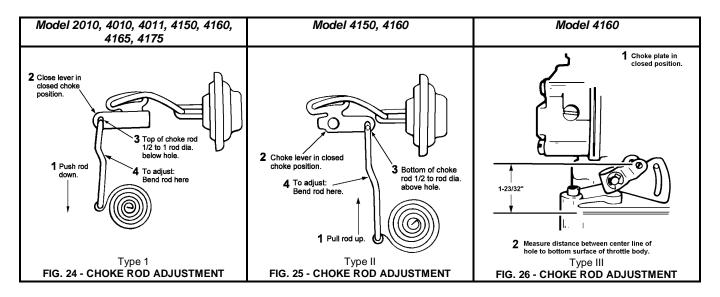
Figure 14

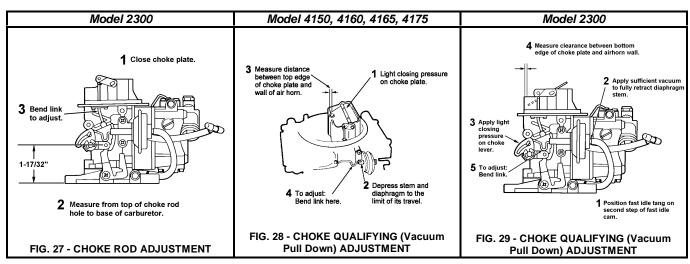
CARBURETOR ADJUSTMENTS:

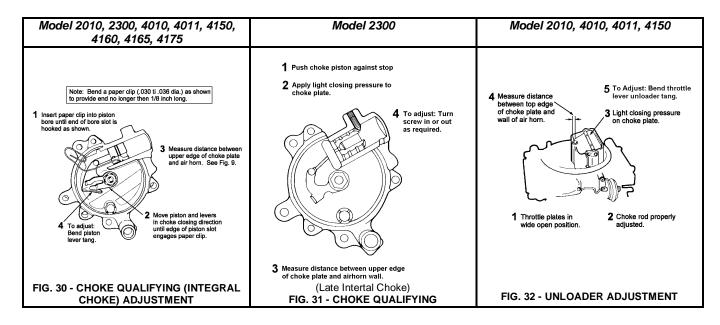


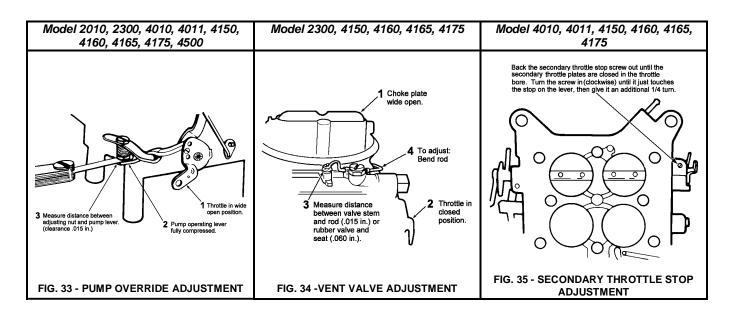


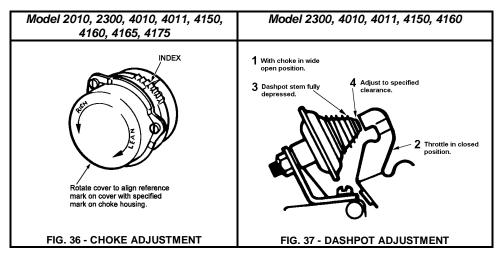












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